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1 Class notes: don't be a WIMP: (http://www.not-for-wimps.org)
Johannes Behr, Dirk Reiners
August 2008   **SIGGRAPH '08:** SIGGRAPH 2008 classes
Publisher: ACM ⚓ Request Permissions
Full text available: 🎬 Flv (93.37 MIN), 🎬 Mov (93:28 MIN), 📄 Pdf (6.40 MB)   Additional Information: full citation, abstract, references, index terms
Bibliometrics: Downloads (6 Weeks): 43, Downloads (12 Months): 271, Downloads (Overall): 632, Citation Count: 0

> Virtual and augmented reality have been around for a long time, but for most people they are movie fantasies. Very few people outside a few research labs have worked with or experienced these systems for themselves. On the other hand, interactive 3D ...

2 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries
Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp
April 2004   **Transactions on Information Systems (TOIS)**, Volume 22 Issue 2
Publisher: ACM ⚓ Request Permissions
Full text available: 📄 Pdf (316.85 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review
Bibliometrics: Downloads (6 Weeks): 50, Downloads (12 Months): 454, Downloads (Overall): 4021, Citation Count: 25

> Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, ...

> **Keywords:** applications., definitions, foundations, taxonomy

3 Communications of the ACM: Volume 52 Issue 9
September 2009   Communications of the ACM
Publisher: ACM
Full text available: 📄 Digital Edition, 📄 Pdf (7.28 MB)   Additional Information: full citation
Bibliometrics: Downloads (6 Weeks): 553, Downloads (12 Months): 553, Downloads (Overall): 553, Citation Count: 0

4 Communications of the ACM: Volume 53 Issue 1
January 2010   Communications of the ACM
Publisher: ACM
Full text available: 📄 Digital Edition, 📄 Pdf (8.09 MB)   Additional Information: full citation
Bibliometrics: Downloads (6 Weeks): 750, Downloads (12 Months): 750, Downloads (Overall): 750, Citation Count: 0
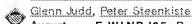
5 Communications of the ACM: Volume 52 Issue 2
February 2009   Communications of the ACM
Publisher: ACM
Full text available: 📄 Digital Edition, 📄 Pdf (7.09 MB)   Additional Information: full citation, index terms
Bibliometrics: Downloads (6 Weeks): 325, Downloads (12 Months): 831, Downloads (Overall): 3195, Citation Count: 0

6 A simple mechanism for capturing and replaying wireless channels

Glenn Judd, Peter Steenkiste

August 2005   **E-WIND '05:** Proceedings of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis

Publisher: ACM ◇ Request Permissions

Full text available: 📄 Pdf (6.06 MB)   **Additional Information:** full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 42, Downloads (12 Months): 387, Downloads (Overall): 2262, Citation Count: 3

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility ...

Keywords: channel capture, emulation, wireless

7 Communications of the ACM: Volume 52 Issue 4

April 2009   Communications of the ACM

Publisher: ACM

Full text available: 📄 Digital Edition , 📄 Pdf (7.58 MB)   **Additional Information:** full citation, index terms

Bibliometrics: Downloads (6 Weeks): 369, Downloads (12 Months): 1129, Downloads (Overall): 2101, Citation Count: 0

8 A generic component model for building systems software

Geoff Coulson, Gordon Blair, Paul Grace, Francois Taiani, Ackbar Joolia, Kevin Lee, Jo Ueyama, Thirunavukkarasu Sivaharan

February 2008   **Transactions on Computer Systems (TOCS)** , Volume 26 Issue 1

Publisher: ACM ◇ Request Permissions

Full text available: 📄 Pdf (603.88 KB)   **Additional Information:** full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 99, Downloads (12 Months): 423, Downloads (Overall): 1502, Citation Count: 16

Component-based software structuring principles are now commonplace at the application level; but componentization is far less established when it comes to building low-level systems software. Although there have been pioneering efforts in applying componentization ...

Keywords: Component-based software, computer systems implementation

9 MANTIS OS: an embedded multithreaded operating system for wireless micro sensor platforms

Shah Bhatti, James Carlson, Hui Dai, Jing Deng, Jeff Rose, Anmol Sheth, Brian Shucker, Charles Gruenwald, Adam Torgerson, Richard Han

August 2005   **Mobile Networks and Applications** , Volume 10 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: 📄 Pdf (1.27 MB)   **Additional Information:** full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 142, Downloads (Overall): 630, Citation Count: 42

The MANTIS MultimodAl system for NeTworks of In-situ wireless Sensors provides a new multithreaded cross-platform embedded operating system for wireless sensor networks. As sensor networks accommodate increasingly complex tasks such as compression/aggregation ...

Keywords: cross-platform, dynamic reprogramming, embedded operating system, lightweight, low power, multithreaded, sensor networks

10 Reliability through redundant parallelism for micro-satellite computing

Ian Vince McLoughlin, Timo Rolf Bretschneider

February 2010 **Transactions on Embedded Computing Systems (TECS)** , Volume 9 Issue 3

Publisher: ACM ◇ Request Permissions

Full text available: Pdf (509.22 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 33, Downloads (12 Months): 49, Downloads (Overall): 49, Citation Count: 0

Spacecraft typically employ rare and expensive radiation-tolerant, radiation-hardened, or at least military qualified parts for computational and other mission critical subsystems. Reasons include reliability in the harsh environment of space, and systems ...

Keywords: COTS components, FPGA, Fault tolerance, hardware redundancy, micro-satellite, on-board computer, parallel processing

11 SplitStream: high-bandwidth multicast in cooperative environments

Miguel Castro, Peter Druschel, Anne-Marie Kermarrec, Animesh Nandi, Antony Rowstron, Atul Singh

December 2003   **SOSP '03:** Proceedings of the nineteenth ACM symposium on Operating systems principles

Publisher: ACM ◇ Request Permissions

Full text available: Pdf (847.74 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 236, Downloads (Overall): 2008, Citation Count: 172

In tree-based multicast systems, a relatively small number of interior nodes carry the load of forwarding multicast messages. This works well when the interior nodes are highly-available, dedicated infrastructure routers but it poses a problem for application-level ...

Keywords: application-level multicast, content distribution, end-system multicast, peer-to-peer, video streaming

Also published in:

December 2003 **SIGOPS Operating Systems Review** Volume 37 Issue 5

12 Reflections on aspects and configurable protocols

Matti Hiltunen, François Tafani, Richard Schlichting

March 2006   **AOSD '06:** Proceedings of the 5th international conference on Aspect-oriented software development

Publisher: ACM ◇ Request Permissions

Full text available: Pdf (378.69 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 47, Downloads (Overall): 562, Citation Count: 3

The goals of aspect oriented software development (AOSD) and frameworks for configurable protocols (CPs) are similar in many respects. AOSD allows the specification of cross-cutting concerns called aspects as separate modules that are woven with the ...

Keywords: configurable software, extensible software

13 Mapping irregular applications to DIVA, a PIM-based data-intensive architecture

Mary Hall, Peter Kogge, Jeff Koller, Pedro Diniz, Jacqueline Chame, Jeff Draper, Jeff LaCoss, John Granacki, Jay Brockman, Apoorv Srivastava, William Athas, Vincent Freeh, Jaewook Shin, Joonseok Park

January 1999   **Supercomputing '99:** Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: ACM

Full text available: Pdf (111.41 KB)   Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 24, Downloads (Overall): 276, Citation Count: 26

14 Collaborative augmented reality environments: integrating VR, working materials, and distributed work spaces

Monika Büscher, Michael Christensen, Kaj Grønbæk, Peter Krogh, Preben Mogensen, Dan Shapiro, Peter Ørbæk

September 2000 **CVE '00**: Proceedings of the third international conference on Collaborative virtual environments

Publisher: ACM ◇ Request Permissions

Full text available: Pdf (1.03 MB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 50, Downloads (Overall): 724, Citation Count: 9

In this work, we present a new method for displaying stereo scenes, which speeds up the rendering time of complex geometry. We first discuss a scene splitting strategy, allowing us to partition objects to the distant background or the ...

Keywords: 3D workspace, CSCW, roomware, virtual office/project room, virtual reality, working material

15 Storage optimization for a peer-to-peer video-on-demand network

Jagadeesh M. Dyaberi, Karthik Kannan, Vijay S. Pai

February 2010 **MMSys '10**: Proceedings of the first annual ACM SIGMM conference on Multimedia systems

Publisher: ACM ◇ Request Permissions

Full text available: Pdf (678.01 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 47, Downloads (12 Months): 90, Downloads (Overall): 90, Citation Count: 0

This paper explores requirements for efficient pre-seeding of video-on-demand (VoD) movie data onto numerous customer set-top boxes in a cable ISP environment. The pre-seeded content will then be distributed to other set-top boxes in the same cable community ...

Keywords: bittorrent, experimental systems, multimedia streaming, nonlinear programming, peer-to-peer, video-on-demand

16 Improving VoD server efficiency with bittorrent

Yung Ryn Choe, Derek L. Schuff, Jagadeesh M. Dyaberi, Vijay S. Pai

September 2007 **MULTIMEDIA '07**: Proceedings of the 15th international conference on Multimedia

Publisher: ACM ◇ Request Permissions

Full text available: Pdf (406.55 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 186, Downloads (Overall): 793, Citation Count: 12

This paper presents and evaluates Toast, a scalable Video-on-Demand (VoD)streaming system that combines the popular BitTorrent peer-to-peer (P2P)file-transfer technology with a simple dedicated streaming server to decrease server load and increase client ...

Keywords: BitTorrent, experimental systems, multimedia streaming, peer-to-peer, video-on-demand

17 The Stream Virtual Machine

Francois Labonte, Peter Mattson, William Thies, Ian Buck, Christos Kozyrakis, Mark Horowitz

September 2004 **PACT '04**: Proceedings of the 13th International Conference on Parallel Architectures and Compilation Techniques

Publisher: IEEE Computer Society

Full text available: Pdf (186.96 KB) Additional Information: full citation, abstract, cited by

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 69, Downloads (Overall): 255, Citation Count: 15

Stream programming is currently being pushed as a way to expose concurrency and separate communication from computation. Since there are many stream languages and potential stream execution engines, this paper proposes an abstract machine model that ...

18 NETKIT: a software component-based approach to programmable networking

Geoff Coulson, Gordon Blair, David Hutchison, Ackbar Jooba, Kevin Lee, Jo Ueyama, Antonio Gomes, Yimin Ye

October 2003   **SIGCOMM Computer Communication Review**, Volume 33 Issue 5

Publisher: ACM

Full text available: Pdf (316.64 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 27,   Downloads (Overall): 624,   Citation Count: 7

While there has already been significant research in support of openness and programmability in networks, this paper argues that there remains a need for generic support for the integrated development, deployment and management of programmable networking ...

Keywords: components, middleware, programmable networking, reflection

19 Project Kittyhawk: building a global-scale computer: Blue Gene/P as a generic computing platform

Jonathan Appavoo, Volkmar Uhlig, Amos Waterland

January 2008 **SIGOPS Operating Systems Review**, Volume 42 Issue 1

Publisher: ACM

Full text available: Pdf (507.41 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 11,   Downloads (12 Months): 78,   Downloads (Overall): 888,   Citation Count: 3

This paper describes Project Kittyhawk, an undertaking at IBM Research to explore the construction of a next-generation platform capable of hosting many simultaneous web-scale workloads. We hypothesize that for a large class of web-scale workloads the ...

20 Configurable SID-based multi-core simulators for embedded system education

Chung-Wen Huang, Wei-Kuan Shih, Yarsun Hsu, Jeng Kuen Lee

October 2009 **WESS '09**: Proceedings of the 2009 Workshop on Embedded Systems Education

Publisher: ACM ◇ Request Permissions

Full text available: Pdf (1.15 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 12,   Downloads (Overall): 12,   Citation Count: 0

With the emerging of multi-core designs for embedded systems, there is a need of multi-core simulation tools for courseware and class experiments. In this paper, we present a multi-core SID-based simulation framework useful for exercises and hands-on ...

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